

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 3, line 6, as follows:

The foregoing object of the present invention has been achieved by the provision of a transmission type photoelectric encoder having a telecentric optical system in which a first lens and an aperture located at a focal position of the first lens are interposed between a main scale and a photoreceptor, and wherein at least a second lens is interposed between the aperture and the photoreceptor with a focus of the second lens on the aperture, thereby constituting a bilateral telecentric optical system.

Please amend the paragraph on page 3, line 19, as follows:

Moreover, ~~at least either one of the first lens and the second lens each of the two lenses is made of [[:]]~~ a spherical ball lens, which has high distortion but is inexpensive; a GRIN lens of gradient refractive index type (also called SELFOC lens), which refracts light beams in a parabolic pattern inside its lens medium; or a drum lens. This allows compact configuration at a low price.

Please add the following new paragraphs beginning on page 3, line 19:

The foregoing object of the present invention has also been achieved by the provision of a photoelectric encoder having a telecentric optical system in which a first lens and an aperture located at a focal position of the first lens are interposed between a main scale and a photoreceptor, and wherein one or more second bilateral telecentric optical systems including a

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second aperture and third and fourth lenses arranged on both sides thereof is/are further interposed between the second lens and the photoreceptor.

The foregoing object of the present invention has also been achieved by the provision of a photoelectric encoder having a telecentric optical system in which two lenses and an aperture located at a focal position of the two lenses are interposed between a main scale and a photoreceptor, and wherein the two lenses comprise identical lenses having a symmetrical front and back shape with regard to a central plane perpendicular to an optical axis.

Please delete the paragraph beginning on page 4, line 1, which begins with "Moreover" and ends with "photoreceptor."

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